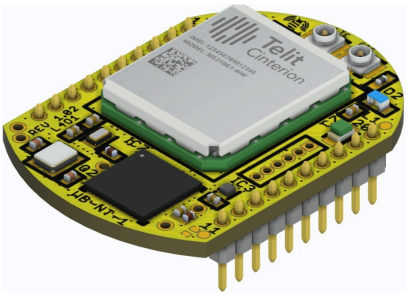
WB-NT-1

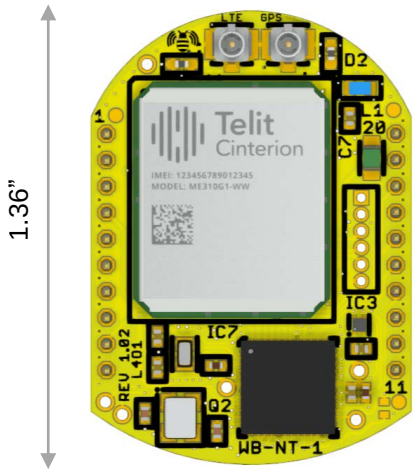
Industrial LTE Cat M1/NB-IoT (NB2) Module

WB-NT-1 is an industrial LTE CAT M1/NB2 module, that is designed for low-data throughput IoT applications and has optimized power consumption with enhanced quality of coverage.

WB-NT-1 uses the brand-new ME310G1 IoT device from Telit® together with a popular Cortex-M0+ 32-bit RISC core microcontroller from ST Micro.

WB-NT-1 is pin compatible with other popular wireless devices and has fully backed by a 3-year warranty, technical support and application assistance from BiPOM Electronics, Inc.





Telit® Module Features:

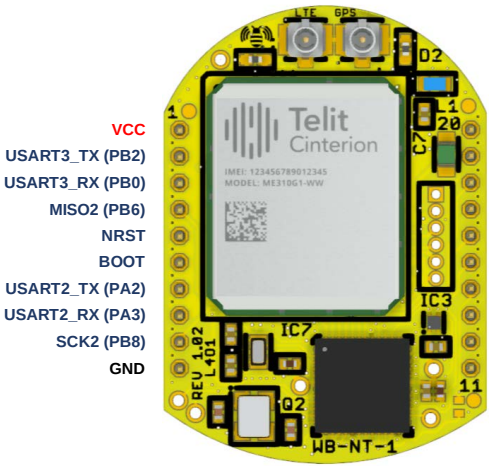
- ME310G1-WW worldwide module
- Both LTE-M1 and NB-IoT (NB2) support
- Low Power for battery operation
- Configurable power output
- Compliant with 3GPP Release 14
- Maximum output power: 21 dBm
- 4G Bands: B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B71, B85. All major worldwide carriers.
- FirstNet support on LTE-M
- GNSS (GPS, GLONASS, Beidou, Galileo)

Microcontroller Features:

- STM32G0B1CEU6N Cortex M0+ core
- Low Power for battery operation
- 144 KB of RAM and 512 KB of Flash memory available to user applications
- Flash memory with protection and securable area
- 12-bit analog inputs, external reference option

WillowBee Specifications:

- Pin compatible with popular modules
- u.FL Connectors for cellular and GNSS
- RF Shield
- Dual Power option: Battery or DC Power
- 3.5V to 5.5V supply voltage range
- Temperature Range: -40°C to +85°C
- Dimensions 1.36” x 0.96” x 0.36” (34.54 mm x 24.38 mm x 9.14 mm)
- 2-MB Serial Flash
- Configurable 15 I/O Pins
- ADC, SPI, UART, I2C interfaces
- Part number: WB-NT-1

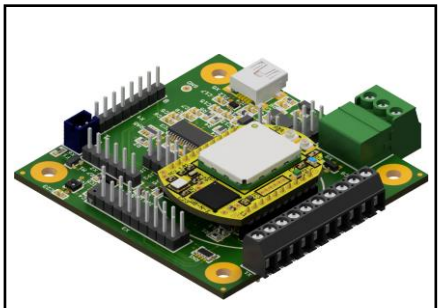


BiPOM Electronics • Telephone: 1-713-283-9970 (USA) 0850 30 24766 (0850-30-BIPOM) (TUR) • E-mail: info@bipom.com

WiPOM

Wireless Point of Monitoring

WiPOM is a software application package that adds sophisticated data logging, remote terminal, and PLC-like capabilities to the WB-NT-1 board. WiPOM can run on STM32 family of processors. WiPOM handles all aspects of Industrial IoT applications development, including I/O management, tags, alarms, events, SMS/email handling, MODBUS master and slave capability, modem detection, management and Cloud portal support. WiPOM runs directly on WB-NT-1 board. Coupled with the WiPOM Client running on a Windows PC or on a web server, programming the WB-NT-1 board is reduced to a series of configuration selections to build a complete IoT system. WiPOM takes software out of the equation for faster time to market. Creating remote monitoring and control systems and sensors has not been easier.

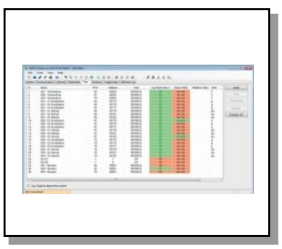


WillowBee Development Board

Windows PC

Serial, USB or over the air

WiPOM Firmware running on board



WiPOM Client running on Windows PC or a web browser (local or remote)

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